

## ABSTRACT

A water saving dual flush system of valving assembly for toilet water-closets of the gravity flow type. This system of valving is designed to fit existing hardware in typical water-closets and convert single flush designs to dual flush water saving systems. Comprised of a flapper type bottom valve having a port located at a position above the discharge pipe of a common water-closet. The port edge of the bottom valve being molded to receive and mate to a flanged pipe end and thereby forming a watertight seal between the pipe and the bottom valve. A floatation collar being attached about the outside of the pipe. The upper end of the pipe having an upper valve seat sleeve attached. The upper valve seat sleeve being a slip-fit sleeve with a valve seat formed on the upper end and having a hinge portion incorporated on one side. The upper valve seat sleeve hinge is designed to mate to the upper valve and form together a hinged mount. The bottom end of the valve seat sleeve being flared to retain the floatation collar. The upper valve having a mating hinge mount attachment point to mate with the upper valve seat sleeve hinge. The upper valve being non-buoyant (depending on the application). The upper valve having a chain attachment point for flush actuation connection to the flush arm and thereby to the flush handle. The chain also having attached a float by which the upper valve is operatively adjusted.